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REMARKS/ARGUMENTS

Claim Amendments 1.)

The Applicant has amended Claims 1 and 18. Claims 1-20 remain pending in the

application. Favorable reconsideration of the application is respectfully requested in

view of the foregoing amendments and the following remarks.

2.) **Examiner Objections – Drawings**

The Examiner objected to Figure 5a because of an inconsistency between the

label for element 620 and the description of that element in the specification. The

Applicants have corrected a typographical error in the text of element 620, changing

"DPCH" to "DSCH." A correction to the drawing is shown on the enclosed sheet. The

Examiner's approval of the drawing change is respectfully requested.

3.) **Examiner Objections - Claims**

The Examiner objected to claim 18 because of an informality. The Applicants

have amended the claim as suggested by the Examiner.

Allowable Subject Matter 4.)

The Examiner objected to claims 15 and 17 as being dependent upon rejected

base claims, but indicated such claims would be allowable if rewritten in independent

form, including all of the limitations of their respective base claims and any intervening

claims. The Applicants thank the Examiner for the indication of allowable subject matter.

The Applicants, however, believe the respective base claims are patentable over the

references of record and, therefore, decline to so amend claims 15 and 17.

Claim Rejections – 35 U.S.C. §103(a) 5.)

The Examiner rejected claims 1-13, 16 and 18-20 as being unpatentable over

Baum, et al. (US 6,385,462 B1) in view of Chuah, et al. (US 6,693,952 B1), and claim

14 as being unpatentable over Baum in view of Chuah and in further view of

Balachandran, et al. (US 6,567,375 B2). The Applicants traverse the rejections.

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Claim 1 recites:

1. A method of transmitting information in a radio communication system comprising at least one transmitter and at least one receiver, the method comprising the steps of:

transmitting first information in a first channel from the at least one transmitter to the at least one receiver, using in the transmitting a modulation and/or coding scheme and adapting the modulation and/or coding scheme to give a secure communication of the first information, and

transmitting second information in a second channel from the at least one transmitter to the at least one receiver and setting the power used for transmitting in the second channel to give a secure communication of the second information, wherein in the step of transmitting the first information, the choice of the modulation and/or coding scheme is controlled by the level of the power at each instant set for transmitting in the second channel. (emphasis added)

As described in Applicants' specification, the claimed invention selects a modulation and coding scheme on a shared first channel based on the instantaneous transmit power of a second channel, which is dedicated ("unique") for each user. The Applicants' invention recognizes that in some systems, such as CDMA-based systems, the dedicated channel (e.g., dedicated physical channel "DPCH") is power-controlled, and thus the signal-to-interference ratio at the receiver is, more or less, constant; *i.e.*, no information about the varying radio channel quality is available at the receiver. Furthermore, using the transmitted power level of the dedicated channel to control the modulation and coding scheme of the shared first channel, rather than the received power level, eliminates the need for feedback signaling from the receiver (e.g., mobile station) to the transmitter (e.g., base station). Whereas Chuah and Baum fail to disclose these features of the claimed invention, claim 1 is not obvious over those references.

As the Examiner notes with respect to claim 1, Baum does not teach "a first channel transmitting first information and a second channel transmitting second

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information." (OA, page 3) To overcome that deficiency of Baum, the Examiner has

looked to the teachings of Chuah, stating that Chuah teaches "a first channel

transmitting first information and a second channel transmitting second information."

The Examiner also asserts that Baum teaches "wherein in the step of transmitting said

information, the choice of the modulation and/or coding scheme is controlled by the

level of the power at each instant set (column 4, lines 22-25)." Even assuming that

Baum does teach what the Examiner asserts, that is not what the Applicant has

claimed. The limitation of claim 1 to which the Examiner refers actually states that:

"wherein in the step of transmitting the first information [on the first channel], the choice

of the modulation and/or coding scheme is controlled by the level of the power at each

instant set for transmitting in the second channel." (emphasis added) In other words, the

transmit power of a second channel is used to control the choice of modulation and/or

coding scheme on the <u>first</u> channel. This is not disclosed by Baum.

At column 4, lines 22-25, as referenced by the Examiner, Baum teaches: "A

modulation/coding rate unit 109 assigns a modulation/coding rate to each of the

planned links based on a signal quality associated with the transmit power assigned to

the link." (emphasis added) In other words, Baum discloses using the signal quality

associated with the transmit power assigned to a link to control the choice of modulation

and/or coding scheme on that same link. This aspect of Baum is not the same as the

limitation of claim 1, which recites that the transmit power of a second channel is used

to control the choice of modulation and/or coding scheme on the first channel. The

Examiner essentially concedes that Baum fails to disclose that claim limitation by stating

that "Baum does not specifically teach a first channel transmitting first information and a

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second channel transmitting second information." (OA, page 3; emphasis added) If

Baum doesn't teach such first and second channels, then it can't teach using the

transmit power of a second channel to control the choice of modulation and/or coding

scheme on the first channel. Therefore, whereas Baum and Chuah fail to disclose the

claimed limitation, the Examiner has failed to establish a prima facie case of

obviousness of claim 1.

Whereas independent claims 16 and 18 recite limitations analogous to those of

claim 1, those claims are also patentable over Baum in view of Chauh. Furthermore,

whereas claims 2-14 are dependent from claim 1 and claim 20 is dependent from claim

16, and include the limitations of their respective base claims, those claims are also

patentable over Baum in view of Chauh. The Applicants, therefore, respectfully request

that the Examiner withdraw the rejection of claims 1-14, 16 and 18-20.

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CONCLUSION

In view of the foregoing amendments and remarks, the Applicants believe all of

the claims currently pending in the Application to be in a condition for allowance. The

Applicants, therefore, respectfully request that the Examiner withdraw all rejections and

issue a Notice of Allowance for claims 1-20.

The Applicants request a telephonic interview if the Examiner has any questions

or requires any additional information that would further or expedite the prosecution of

the Application.

Respectfully submitted,

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